

FIG. 1

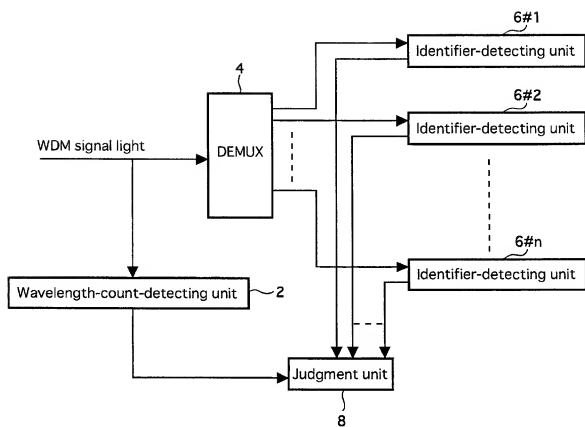


FIG. 2

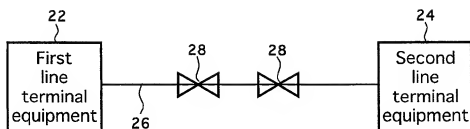


FIG. 3

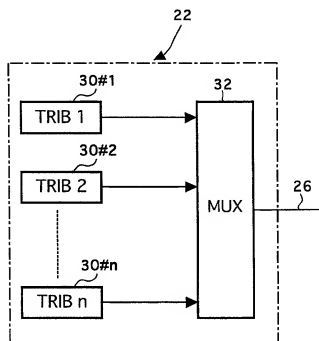


FIG. 4

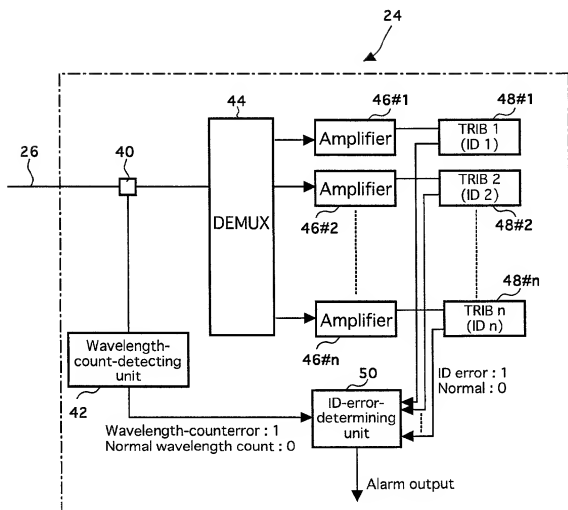


FIG. 5

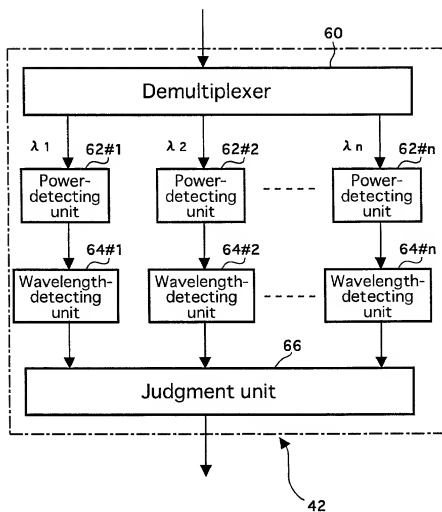


FIG. 6

Wavelength count	ID	Alarm output
0	0	None
0	1	ID error
1	0	Optical input down
1	1	Optical input down

Wavelength count (Normal : 0, error : 1)
ID (Normal : 0, ID error : 1)

FIG. 7

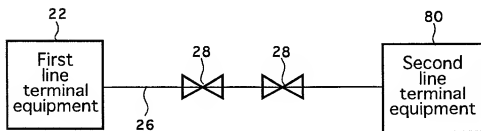


FIG. 8

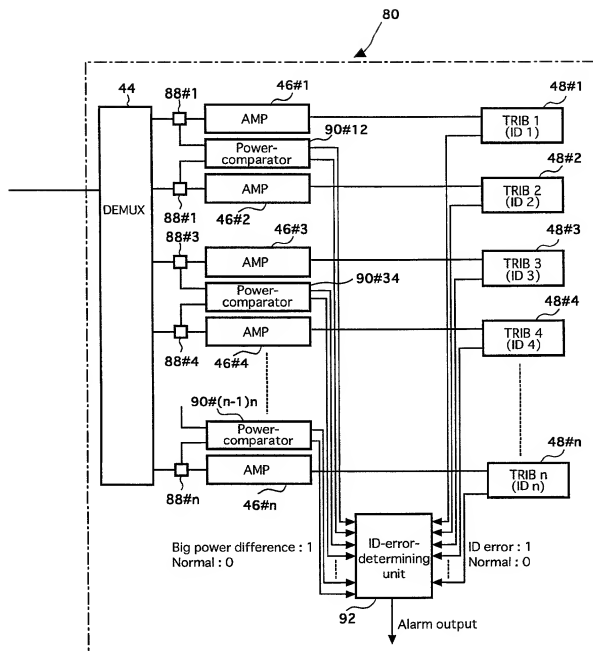


FIG. 9

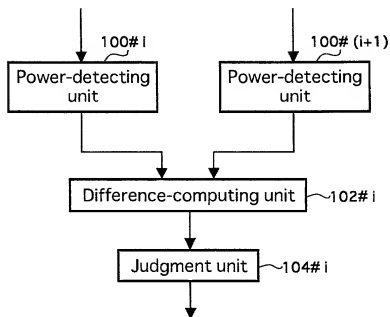


FIG. 10

Comparison result	ID	Alarm output
0	0	None
0	1	ID error
1	0	Optical input down
1	1	Optical input down

Comparison result (Normal : 0, big power difference : 1)
 ID (Normal : 0, ID error : 1)

FIG. 11

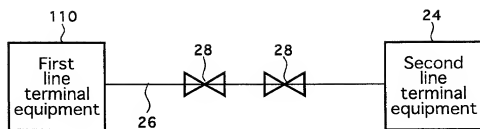
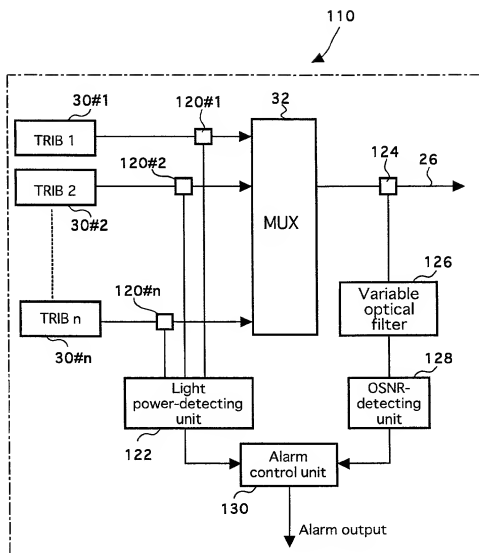


FIG. 12



F I G. 1 3

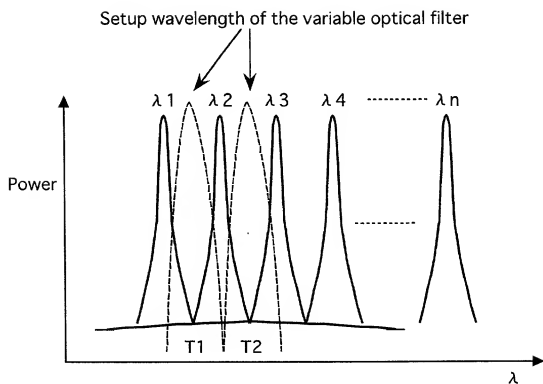


FIG. 14A

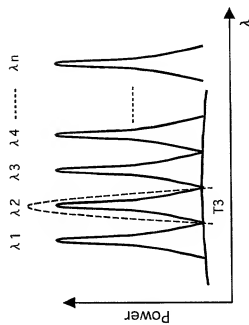


FIG. 14C

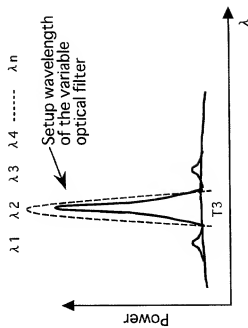


FIG. 14B

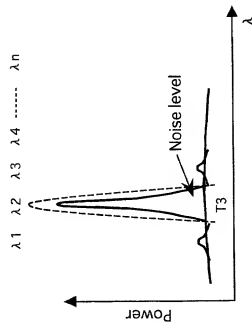


FIG. 14D

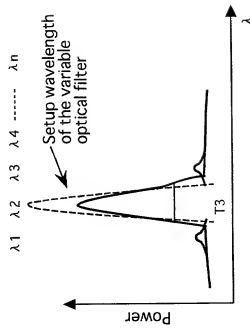


FIG. 15

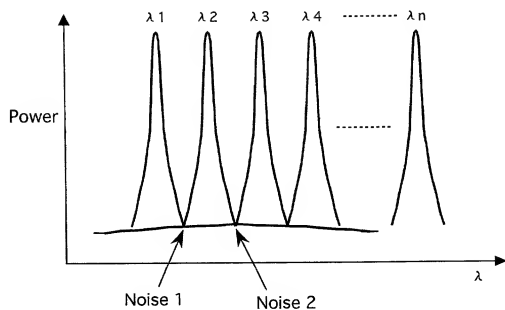


FIG. 16

Light power	ID	Alarm output
0	0	None
0	1	Signal degrade
1	0	Optical output down
1	1	Optical output down

Light power (Normal : 0, abnormal : 1)

OSNR (Normal : 0, abnormal : 1)

FIG. 17

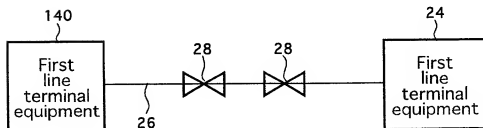


FIG. 18

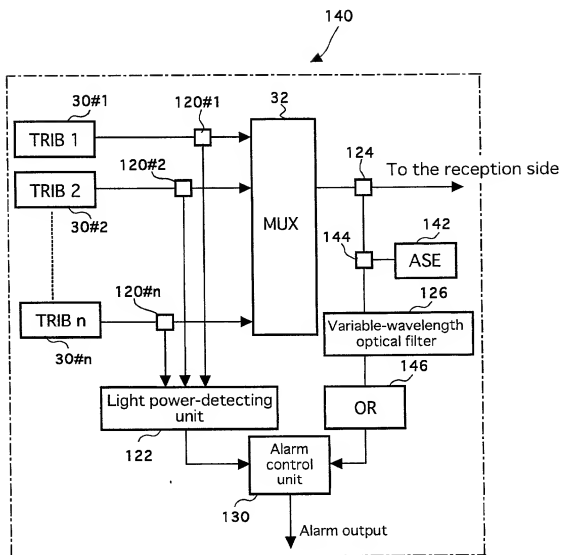


FIG. 19

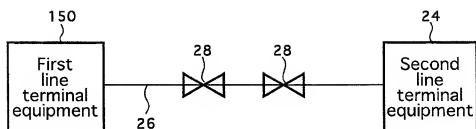


FIG. 20

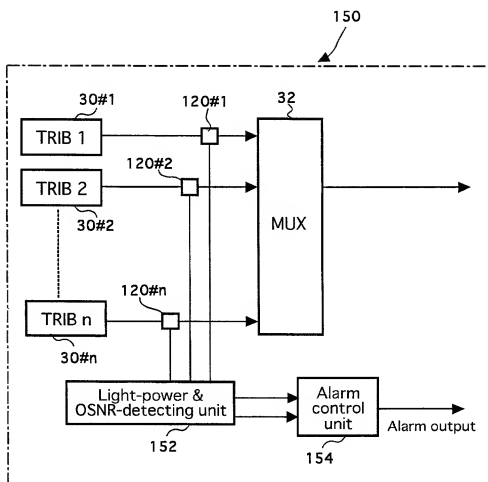


FIG. 21

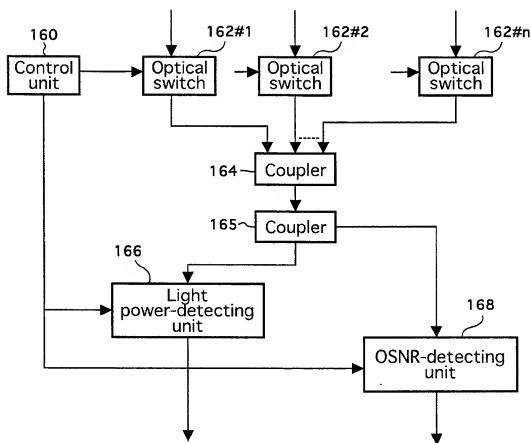


FIG. 22

Light power	ID	Alarm output
0	0	None
0	1	Signal degrade
1	0	Optical output down
1	1	Optical output down

Light power (Normal : 0, abnormal : 1)

OSNR (Normal : 0, abnormal : 1)

FIG. 23A

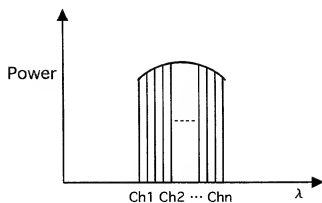


FIG. 23B

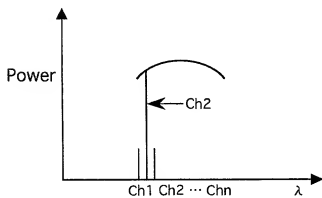


FIG. 23C

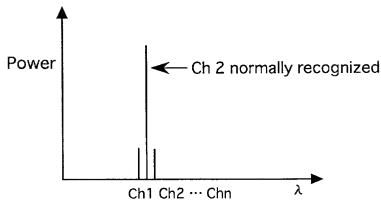


FIG. 24A

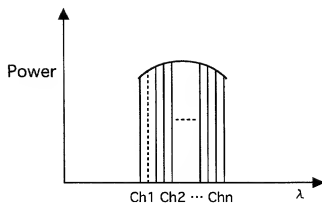


FIG. 24B

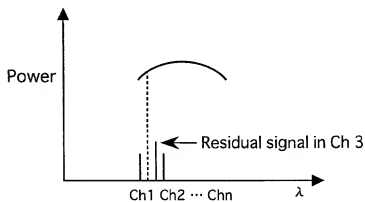


FIG. 24C

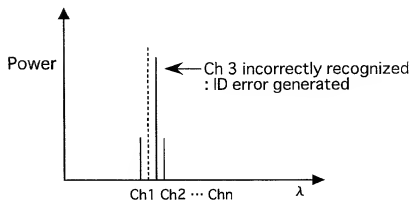


FIG. 25A

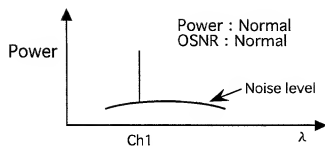


FIG. 25B

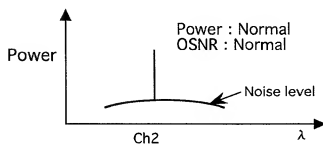


FIG. 25C

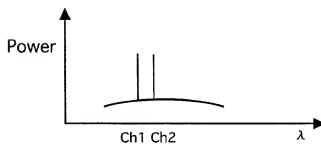
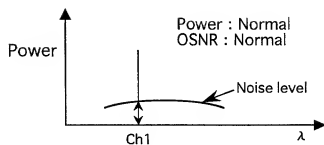
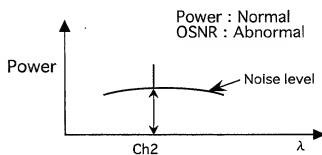


FIG. 26A**FIG. 26B****FIG. 26C**